

Heating and Cooling Equipment (Heat Pumps)

Background

Covered Products

This category shall cover the following types of heat pumps:

- A. Air-source heat pumps
- B. Ground-source heat pumps
- C. Heat pump water heaters
- D. Variable refrigerant flow (VRF) systems

Background

Buildings are the leading cause of greenhouse gas emissions in New York State. Heat pump technology can heat and cool a building using electricity (no fossil fuels).

The State is working toward meeting the goals of the Climate Leadership and Community Protection Act, which include a grid powered by 70% renewable energy (fossil free electricity) by 2030 and 100% by 2040, ensuring that our heating and cooling is cleaner and eventually emission free.

Various executive orders, directives and laws have been issued to move state government toward being more energy efficient, reducing reliance on fossil fuel, emission reductions and most recently toward electrification, including:

- o Climate Leadership and Community Protection Act (2019)
- o Executive Order No. 4 (2008)
- o Executive Order No. 166 (2017)
- o BuildSmart 2025 (2000)
- o New Efficiency New York White Paper (2018)

To increase uptake of clean heating and cooling in New York State agency and authority buildings, a green purchasing specification for heat pumps and technical services -- a key component to support reductions in building energy use via electrification needs to be added to the list of existing specifications.

These specifications and guidelines are consistent with and link to the Public Service Commission-approved New York State Clean Heat Statewide Heat Pump Program (NYS Clean Heat Program) and will provide easily discoverable information on clean heating and cooling technologies for staff who make purchasing decisions at New York State agencies and authorities.